

## OPTICAL INTERCONNECT FOR MEZZANINE CIRCUIT BOARDS

## Abstract of the Disclosure

5 An optical interface is provided to supplement an electrical interface  
between a main circuit board (102) and a mezzanine circuit board (104) that is  
mounted above the main circuit board. The mezzanine circuit board is  
mounted generally parallel to, and above the main circuit board. In between  
the two circuit boards is provided an optical interface. A light source (200) is  
mounted to one of the circuit boards and a complementary photo detector  
10 (202) is mounted on the other circuit board in a manner such that the photo  
detector receives light from the light source. Two optical interfaces are  
preferred for two-way communication between the main circuit board and the  
mezzanine circuit board. The light source is preferably a laser and the photo  
detector is preferably a photo diode. The optical interface provides a high  
15 speed interconnect to increase conductivity and functionality between the  
main circuit board and the mezzanine circuit board.

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